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List of Patents and Publications for Applicant's

INFORMATION DISCLOSURE STATEMENT

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Atty. Docket No.
10830.0072.NPUS00Serial No.
09/823,024Applicant
Raymond Mantchala, et al.Filing Date:
March 30, 2001Group:
2621U.S. Patent Documents
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U.S. Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Name | Class | Sub Class | Filing Date of App. |
|-------------|-----------|-----------------|------------|---------------------|-------|-----------|---------------------|
| cep | A1 | 5,959,690 | 09/28/1999 | Toebes, VIII et al. | 348 | 578 | 02/19/1997 |
| | A2 | 5,892,915 | 04/06/1999 | Duso et al. | 395 | 200.49 | 05/05/1997 |
| | A3 | 5,859,660 | 01/12/1999 | Perkins et al. | 348 | 9 | 02/29/1996 |
| | A4 | 5,838,678 | 11/17/1998 | Davis et al. | 370 | 389 | 07/24/1996 |
| | A5 | 5,675,384 | 10/07/1997 | Ramamurthy et al. | 348 | 405 | 10/03/1995 |
| | A6 | 5,534,944 | 07/09/1996 | Egawa et al. | 348 | 584 | 07/21/1995 |
| | A7 | 5,231,484 | 07/27/1993 | Gonzales et al. | 358 | 133 | 11/08/1991 |
| | A8 | 5,969,650 | 10/19/1999 | Wilson | 341 | 67 | 01/16/1998 |
| | A9 | 5,793,897 | 08/11/1998 | Jo et al. | 382 | 246 | 12/16/1994 |
| | A10 | 5,694,170 | 12/02/1997 | Tiwari et al. | 348 | 390 | 04/06/1995 |
| | A11 | 5,565,998 | 10/15/1996 | Coombs et al. | 386 | 46 | 02/22/1994 |
| cep | A12 | 5,381,144 | 01/10/1995 | Wilson et al. | 341 | 63 | 10/25/1993 |

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation |
|-------------|-----------|--|
| cep | C1 | Y. Nakajima, H. Hori, and T. Kanoh, "Rate Conversion of MPEG Coded Video by Re-quantization Process," IEEE Proc. of ICIP-95, vol. III, Sept. 1995, pp. 408-411 |
| cep | C2 | A.T. Erdem and M.I. Sezan, "Multi-generation Characteristics of the MPEG Video Compression Standards," IEEE Proc. of ICIP-94, vol. II, 1994, pp. 933-937 |
| cep | C3 | M. Perreira, and A. Lippman, "Re-codable video," IEEE Proc. of ICIP-94, vol. II, 1994, Pp. 952-956 |

EXAMINER:

DATE CONSIDERED:

12/6/04

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation |
|-------------|-----------|--|
| cef | C35 | MPEG Wizard: MPEG Real-Time External Encoder, http://www.duplexx.com/mpgwiz.html , MPEG Wizard: MPEG Real-Time Encoder – Features and Software, http://www.duplexx.com/mpgwiz_f.html , MPEG Wizard: MPEG Real-Time Encoder – Specs & Requirements, http://www.duplexx.com/mpgwiz_r.html , published at least as early as 3/19/01, 4 pages |
| | C36 | Optivision MPEG-1 Encoder, http://brahma.imag.fr/Multimedia/jeudis/jeudi2/Optivision_mpeg1enc.html , published at least as early as 3/19/01, 3 pages |
| | C37 | Adrienne Electronics Corporation – Home Page, http://www.adrielec.com/ , 1 page; Functional Grouping of LTC/VITC, VTR Interface, and Video Products, http://www.adrielec.com/listing.htm , 2 pages; Adrienne Electronics Products and Price Listings Catalog, http://www.adrielec.com/shortfor.htm , 8 pages; AEC-BOX-8/18/28 Standalone VITC and/or LTC Time Code Generator, http://www.adrielec.com/box28lit.htm , 4 pages; AEC-BOX-8/18/28 Standalone LTC/VITC Time Code Reader, http://www.adrielec.com/box20lit.htm , 5 pages, published at least as early as 3/15/01 |
| | C38 | National P/N CLC020 – SMPTE 259M Digital Video Serializer with Integrated Cable Driver, http://www.national.com/pf/CL/CLC020.html , published at least as early as 3/14/01, 3 pages |
| | C39 | TE600 MPEG-2 DSN Encoder, satellite uplink equipment, downlink, teleports, earth stations, amplifiers, antennas, http://www.usacanada.net/satellite/te600.htm , published at least as early as 3/14/01, 3 pages |
| | C40 | TDR600/RA, satellite uplink equipment, downlink, teleports, earth stations, amplifiers, antennas, http://www.usacanada.net/satellite/tdr600-ra.htm , published at least as early as 3/14/01, 2 pages |
| | C41 | TE300A MPEG-2 Encoder, satellite uplink equipment, downlink, teleports, earth stations, amplifiers, antennas, http://www.usacanada.net/satellite/te300a.htm , published at least as early as 3/14/01, 3 pages |
| cef | C42 | TE-30, satellite uplink equipment, downlink, teleports, earth stations, amplifiers, antennas, http://www.usacanada.net/satellite/te30.htm , published at least as early as 3/14/01, 3 pages |

EXAMINER:

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Other Art

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation |
|-------------|-----------|--|
| cup | C27 | B. Shen and I.K. Sethi, <u>Convolution-Based Edge Detection for Image/Video in Block DCT Domain</u> , Vision & Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, <i>To appear in Journal of Visual Communications and Image Representation</i> , 19 pages |
| | C28 | Bo Shen and Ishwar K. Sethi, <u>Direct feature extraction from compressed images</u> , Vision and Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, <i>SPIE vol. 2670, Storage & Retrieval for Image and Video Databases IV, 1996</i> , 12 pages |
| | C29 | Bo Shen and Ishwar K. Sethi, <u>Block-Based Manipulations On Transform-Compressed Images and Videos</u> , Vision and Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, <i>To appear in Multimedia Systems</i> , 26 pages |
| | C30 | Bo Shen and Ishwar K. Sethi, <u>Inner-Block Operations On Compressed Images</u> , Vision and Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, <i>ACM Multimedia '95, San Francisco, CA, Nov. 5-9, 1995</i> , 10 pages |
| | C31 | Alexandros Eleftheriadis and Dimitris Anastassiou, <u>Constrained and General Dynamic Rate Shaping of Compressed Digital Video</u> , Dept. of Electrical Engineering and Center for Telecommunications Research, Columbia University, New York, NY, <i>Proceedings, 2nd IEEE International Conference on Image Processing (ICIP-95), Arlington, VA, October 1995</i> , 4 pages |
| | C32 | Alexandros Eleftheriadis and Dimitris Anastassiou, <u>Optimal Data Partitioning of MPEG-2 Coded Video</u> , Dept. of Electrical Engineering and Center for Telecommunications Research, Columbia University, New York, NY, <i>Proceedings, 1st International Conference on Image Processing (ICIP-94), Austin, Texas, November 1994</i> , 5 pages |
| | C33 | Andrew B. Watson, Joshua A. Solomon, Albert Ahumada, and Alan Gale, <u>DCT Basis Function Visibility: Effects of Viewing Distance and Contrast Masking</u> , (1994), 11 pages, in B.E. Rogowitz (Ed.), <i>Human Vision, Visual Processing and Digital Display IV</i> (pp.99-108), Billington, WA, SPIE |
| cup | C34 | O'Reilly Network Broadcast 2000 Brings DV Editing to Linux (Aug. 11, 2000), http://www.oreillynet.com/pub/a/network/2000/08/11/magazine/broadcast2000.html , published at least as early as 3/27/01, 3 pages; Broadcast 2000, http://heroinewarrior.com/bcast2000.php3 , published at least as early as 3/27/01, 4 pages |

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AUG 13 2001
Technology Center 2600

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation |
|-------------|-----------|---|
| cep | C16 | Barry G. Haskell, Atul Puri, and Arun N. Netravali, <u>MPEG-2 Video Coding and Compression</u> , Chp. 8, pp. 156-182, and "Interactive Television," Chp. 13, pp. 292-306, <u>DIGITAL VIDEO: AN INTRODUCTION TO MPEG-2</u> , Chapman & Hall, New York, NY, 1997 |
| | C17 | "MPEG-2: The basics of how it works," Hewlett Packard, published at least as early as Oct. 31, 1999, 17 pages |
| | C18 | Anil K. Jain, <u>Fundamentals of Digital Image Processing</u> , Prentice Hall, Inc., Englewood Cliffs, New Jersey, 1989, Chapter 4: Image Sampling and Quantization and Chapter 5: Image Transforms, pp. 80-188 |
| | C19 | "Information technology—Generic coding of moving pictures and associated audio information: Systems," International Standard, ISO/IEC 13818-1:1996(E), 136 pages |
| | C20 | "Information technology—Generic coding of moving pictures and associated audio information: Video," International Standard, ISO/IEC 13818-2:1996(E), 211 pages |
| | C21 | "Information technology—Generic coding of moving pictures and associated audio information—Part 3: Audio," International Standard, ISO/IEC 13818-3:1995(E), 118 pages |
| | C22 | Jerry D. Gibson, Toby Berger, Tom Lookabaugh, Dave Lindbergh, and Richard L. Baker, <u>Digital Compression for Multimedia: Principles and Standards</u> , Morgan Kaufmann Publishers, Inc., San Francisco, CA, 1998, Chapter 9: JPEG Still-Image Compression Standard, pp. 291-308, and Chapter 11: MPEG Compression, pp. 363-417 |
| | C23 | Barry G. Haskell, Atul Puri, and Arun N. Netravali, <u>Digital Video: An Introduction to MPEG-2</u> , Chapman & Hall, New York, NY, 1997, pp. 1-279, 292-306, 369-421 |
| | C24 | Nilesh V. Patel and Ishwar K. Sethi, <u>Compressed Video Processing For Cut Detection</u> , Vision and Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, October 1997, 26 pages |
| | C25 | Nilesh V. Patel and Ishwar K. Sethi, <u>Video Shot Detection and Characterization for Video Databases</u> , Vision and Neural Networks Laboratory, Dept. of Computer Science, Wayne State University, Detroit, MI, October 1997, 22 pages |
| cep | C26 | Bo Shen, Ishwar K. Sethi and Vasudev Bhaskaran, <u>DCT Convolution and Its Application In Compressed Video Editing</u> , Dept. of Computer Science, Wayne State University, Detroit, MI and Visual Computing Dept., Hewlett-Packard Laboratories, Palo Alto, CA, <i>To appear in SPIE VCDIP '97, also submitted to IEEE Trans. Cir. And Sys. For Video Tech.</i> , 11 pages |

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2/6/04

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation |
|-------------|-----------|---|
| <i>Cyf</i> | C4 | M. Mohsenian, R. Rajagopalan, and C.A. Gonzales, "Single-pass constant- and variable-bit-rate MPEG-2 video compression," IBM J. Res. Develop., vol. 43, no. 4, July 1999, pp. 489-509 |
| | C5 | P.H. Westerink, R. Rajagopalan, and C.A. Gonzales, "Two-pass MPEG-2 variable-bit-rate encoding," IBM J. Res. Develop., vol. 43, no. 4, July 1999, pp. 471-488 |
| | C6 | Jill Boyce, John Henderson, and Larry Pearlstein, "An SDTV Decoder with HDTV Capability: An All-Format ATV Decoder," Hitachi America Ltd., file:///C:/Fatima/67.gif , pp. 67-75, published at least as early as 1/12/00 |
| | C7 | Boon-Lock Yeo, "On fast microscopic browsing of MPEG-compressed video," IBM T.J. Watson Research Center, Jan. 1998, Multimedia Systems 7, 1999, pp. 269-281 |
| | C8 | Robert Mokry and Dimitris Anastassiou, "Minimal Error Drift in Frequency Scalability for Motion-Compensated DCT Coding," IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, vol. 4, no. 4, Aug. 1994, pp. 392-406 |
| | C9 | C. Ward, C. Pecota, X. Lee, and G. Hughes, "Seamless Splicing for MPEG-2 Transport Stream Video Servers," SMPTE JOURNAL, December 1999, pp. 873-879 |
| | C10 | Norm Hurst and Katie Cornog, "MPEG Splicing: A New Standard for Television—SMPTE 312M," SMPTE JOURNAL, November 1998, pp. 978-988 |
| | C11 | Norm Hurst and Katie Cornog, "Splicing FAQ," http://www.mpeg.org/MPEG/splicing-FAW.html , 8 pages, published at least as early as 10/13/99 |
| | C12 | SMPTE 312M-1999, SMPTE Standard for Television, "Splice Points for MPEG-2 Transport Streams," Approved April 8, 1999, THE SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS, White Plains, NY, 20 pages |
| | C13 | "The Shape of MPEG," DV Magazine, vol. 4, no. 12, December 1996, http://livedv.com/Mag/Dec96/Contents/mpeg/mpeg.html , 5 pages, published at least as early as 10/13/99 |
| | C14 | "A Guide to MPEG Fundamentals and Protocol Analysis (Including DVB and ATSC)," Tektronix, Inc., Beaverton, Oregon, 1997, pp. 48 pages |
| <i>Cyf</i> | C15 | Leonardo Chiariglione, "MPEG and multimedia communications," CSELT, Torino Italy, http://www.csel.it/stet.it/ufv/leonardo/paper/isce96.htm , 50 pages, published at least as early as 10/13/99 |

EXAMINER:

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